

Title (en)  
Direct fuel injection-type spark ignition internal combustion engine

Title (de)  
Fremdgezündete Brennkraftmaschine mit Direkteinspritzung

Title (fr)  
Moteur à allumage commandé à injection directe

Publication  
**EP 1006266 B1 20030409 (EN)**

Application  
**EP 99123749 A 19991130**

Priority  
• JP 34279398 A 19981202  
• JP 8185099 A 19990325  
• JP 23985699 A 19990826

Abstract (en)  
[origin: EP1006266A2] In a direct fuel injection-type spark ignition internal combustion engine comprising a spark plug and a fuel injector for injecting fuel directly into the cylinder, the engine can carry out stratified charge combustion by the fuel injection in the compression stroke and uniform charge combustion by the fuel injection in the intake stroke, and the engine comprises a mechanism which can make a tumbling stream formed in the cylinder in the intake stroke in the stratified charge combustion weaker than that in the uniform charge combustion. <IMAGE>

IPC 1-7  
**F02B 31/00**; F02D 13/02; F02B 17/00

IPC 8 full level  
**F01L 3/06** (2006.01); **F02B 17/00** (2006.01); **F02B 23/10** (2006.01); **F02B 27/00** (2006.01); **F02B 31/00** (2006.01); **F02B 31/06** (2006.01); **F02D 13/02** (2006.01); **F02D 41/02** (2006.01); **F02D 41/04** (2006.01); **F02M 61/14** (2006.01); **F02B 75/12** (2006.01); **F02F 1/24** (2006.01); **F02F 3/26** (2006.01)

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Cited by  
CN108699925A; FR2812339A1; EP1391594A3; FR2887299A1; EP1205650A3; EP1243770A1; AT500713A1; DE112005001955B4; EP3073099A1; WO2006017866A3; US6668791B2

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